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			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DV	1	US- 6,469,333 B	•	TAKAI et al.	
DV	2	^{US-} 5,707,888	01-13-1998	ARONOWITZ et al.	
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	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.	Foreign Patent Document Country Code ³ Number * Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁰		
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number

Filing Date 01/23/2004

First Named Inventor TADAHIRO OHMI

Art Unit 2818

Examiner Name

Sheet 1 of Attorney Docket Number 040258-0307828

Examiner	Cite No.1	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No.1	Number-Kind Code ^{2 (il known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
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Initials* No	Cite	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (<i>if known</i>)		Publication Date	Name of Patentee or	Pages, Columns, Lines,	_
	No.'			MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
DV	F	JP	9-223752	08-00-1997	MINE		
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Application Number

Examiner Name

Filing Date

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

bstitute for form 1449B/PTO

01/23/2004 First Named Inventor TADAHIRO OHMI Art Unit 2818

(Use as many sheets as necessary)

of

Attorney Docket Number 040258-0307828

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
DV	1	ITO ET AL., "Silicon Oxynitridation WIth Inductively Coupled Oxygen-Nitrogen Mixed Plasma," Jpn. J. Appl. Phys., p. 612-616, (1997).	
p∨	2	HIRAYAMA ET AL., "Low Temperature Growth of High-Integrity Silicon Oxide Films by Oxygen Radical Generated in High-Density Krypton-Plasma," IEEE, p. 249-252, (1999).	
b∨	3	SAITO ET AL., "Low Temperature Formation of Gate-Grade Silicon Nitride Film Employing Microwave-Excitation High-Density Plasma," Technical Report, IEICE, p. 85-90, (1999).	
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Substitute for form 1449A/PTO		Complete if Known			
			Application Number	10/762520	
INFO	ORMATION	DISCLOSURE	Filing Date	01/23/2004	
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			U. S. PATENT	DOCUMENTS	•
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (J known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PV	1	US- 6,479,392	11-12-2002	YAMAZAKI et al.	
DV	2	^{US-} 6,380,033	04-30-2002	HE et al.	
DV	3	US- 2001/0044187	11-22-2001	JOO et al.	
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Examiner	Cite			Publication Date	Name of Patentee or	Pages, Columns, Lines,	70		
Initials*	Initials* No.1			MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear			
DV	Α	JP	5-267684	10-00-1993	OZAWA				
DV	В	JP	259-105371	06-00-1984	KOMORI				
DV	С	JP	8-51164	02-00-1996	MORITA				
OV	D	JP	9-205155	08-00-1997	TAKABAYASHI	,	L		
DV	Е	JP	9-213820	08-00-1997	USHIYAMA et al.				

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Substitute for form 1449A/PTO	Complete if Known			
	Application Number	10/762520		
INFORMATION DISCLOSURE	Filing Date	01/23/2004 TADAHIRO OHMI		
STATEMENT BY APPLICANT	First Named Inventor			
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Sheet 1 of	Attorney Docket Number	040258-0307828		

			U. S. PATENT		<u> </u>
Examiner	Cite No.	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant
initials*	No.	No." MM-DD-Y' Number-Kind Code ^{2 (if known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
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	STAT	EMENT BY	APPLIC	CANT	First Named Inventor	TADAHIRO OHMI	
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NON PATENT LITERATURE DOCUMENTS					
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. D V	1	ITO ET AL., "Silicon Oxynitridation With Inductively Coupled Oxygen-Nitrogen Mixed Plasma," Jpn. J. Appl. Phys., p. 612-616, (1997).			
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